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APPLICATION NO		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/044,782		01/11/2002	Andreas Arning	DE92000057US1	8377
25259	7590	05/18/2006		EXAM	INER
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DEPT. T81	l / B503, l	PO BOX 12195	ART UNIT	PAPER NUMBER	
REASEAR	CH TRIA	ANGLE PARK, NC	2164		
				DATE MAILED: 05/18/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/044,782	ARNING ET AL.				
Office Action Summary	Examiner	Art Unit				
	Sana Al-Hashemi	2164				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status		·				
Responsive to communication(s) filed on 04 A This action is FINAL. 2b)⊠ This Since this application is in condition for allowed closed in accordance with the practice under	s action is non-final. ance except for formal matters, pro					
Disposition of Claims						
4) Claim(s) 1-13 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-13 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	awn from consideration.					
9) The specification is objected to by the Examination 10) The drawing(s) filed on is/are: a) accomposed as a composition and a composition and a composition is considered. Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct of the composition and the correct of the composition is objected to by the Examination.	cepted or b) objected to by the lead of a cepted or b) objected to by the lead of a cepted of the drawing (s) is objection is required if the drawing (s) is objection is	e 37 CFR 1.85(a). sected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

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DETAILED ACTION

- 1. This action is issued in response to applicant's amendment filed 4/4/06.
- 2. Claims 1-13 are pending. No claims were added. None were canceled.
- 3. Applicant's arguments filed 4/4/06 have been fully considered but they are not persuasive.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Regarding Claims 1-13 the claimed invention is directed to non-statutory subject matter.

It is essential that patent applicants obtain a prompt yet complete examination of their applications. Under the principles of compact prosecution, each claim should be reviewed for compliance with every statutory requirement for patentability in the initial review of the application, even if one or more claims are found to be deficient with respect to some statutory requirement. Thus, Office personnel should state all reasons and bases for rejecting claims in the first Office action. Deficiencies should be explained clearly, particularly when they serve as a basis for a rejection. Whenever practicable, Office personnel should indicate how rejections may

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be overcome and how problems may be resolved. A failure to follow this approach can lead to unnecessary delays in the prosecution of the application.

Prior to focusing on specific statutory requirements, Office personnel must begin examination by determining what, precisely, the applicant has invented and is seeking to patent, and how the claims relate to and define that invention. (As the courts have repeatedly reminded the Office: "The goal is to answer the question What did applicants invent?" In re Abele, 684 F.2d 902, 907, 214 USPQ 682, 687. Accord, e.g., Arrhythmia Research Tech. v. Corazonix Corp., 958 F.2d 1053, 1059, 22 USPQ2d 1033, 1038 (Fed. Cir. 1992).) Consequently, Office personnel will no longer begin examination by determining if a claim recites a "mathematical algorithm." Rather they will review the complete specification, including the detailed description of the invention, any specific embodiments that have been disclosed, the claims and any specific, substantial, and credible utilities that have been asserted for the invention.

A. Identify and Understand Any Practical Application Asserted for the Invention The claimed invention as a whole must accomplish a practical application. That is, it must produce a "useful, concrete and tangible result." State Street, 149 F.3d at 1373, 47 USPQ2d at 1601-02. The purpose of this requirement is to limit patent protection to inventions that possess a certain level of "real world" value, as opposed to subject matter that represents nothing more than an idea or concept, or is simply a starting point for future investigation or research (Brenner v. Manson, 383 U.S. 519, 528-36, 148 USPQ 689, 693-96); In re Ziegler, 992, F.2d 1197, 1200-03, 26 USPQ2d 1600, 1603-06 (Fed. Cir. 1993)). Accordingly, a complete disclosure should contain some indication of the practical application for the claimed invention, i.e., why the applicant believes the claimed invention is useful.

Apart from the utility requirement of 35 U.S.C. 101, usefulness under the patent eligibility standard requires significant functionality to be present to satisfy the useful result aspect of the practical application requirement. See Arrhythmia, 958 F.2d at 1057, 22 USPQ2d at 1036. Merely claiming nonfunctional descriptive material stored in a computer- readable medium does not make the invention eligible for patenting. For example, a claim directed to a word processing file stored on a disk may satisfy the utility requirement of 35 U.S.C. 101 since the information stored may have some "real world" value. However, the mere fact that the claim may satisfy the utility requirement of 35 U.S.C. 101 does not mean that a useful result is achieved under the practical application requirement. The claimed invention as a whole must produce a "useful, concrete and tangible" result to have a practical application.

Although the courts have yet to define the terms useful, concrete, and tangible in the context of the practical application requirement for purposes of these guidelines, the following examples illustrate claimed inventions that have a practical application because they produce useful, concrete, and tangible result:

In the instant application

Regarding Claims 1, 10, 11, and 13, there is no tangible in the steps performed. The claim language does not disclose tangible structure in the body of the claims. Since the claimed invention is a program application that is a non-functional descriptive material, in other words claiming software that can be run on a computer and it's not tied to the structural.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1, 10, 11, and 13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Wherein the step of "determining a quality index based on the comparison". It's unclear to the Examiner on how the comparison between the foreground and background frequency would change or effect the quality of the index, since the claims don't disclose any thing related or claims the index or the index quality. The examiner believes there is a missing step between step c, and step d. Clarification is required.

Claims 2-9, and 12 inherent the independent claim's deficiency, and therefore are rejected.

Response to Arguments

Applicant argues that "a rejection under 35 U.S.C. § 112 second paragraph is not appropriate, when the scope of the claimed subject matter can be determined by one having ordinary skill in the art. MPEP § 2173. Applicants respectfully assert that having ordinary skill in the art can determine the scope of the limitation of 'determining a quality index based on the comparison'".

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Examiner disagrees. The rejection under 35 U.S.C. § 112-second paragraph is properly applied. The claim reads as follow:

A method for determining the quality of a result of a clustering data processing operation, the result comprising a set of clusters, a cluster having a set of buckets for each variable, the method comprising the steps of: a) determining a foreground frequency of a bucket within a first cluster; b) determining a background frequency of the bucket with respect to all of the clusters; c) comparing the foreground and background frequencies; and d) determining a quality index based on the comparison.

Nothing in the claim up to the last limitation disclose an index or quality index. There fore limitation "d) determining a quality index based on the comparison" there is no antecedent bases for the quality index in order to determine the quality you need to compare the results of limitation c) to an existing quality index or you generate a new quality index based on the comparison. Therefore the 112 rejection is maintained and finalized.

Points of Contact

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sana Al-Hashemi whose telephone number is 571-272-4013. The examiner can normally be reached on 8Am-4:30Pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Rones can be reached on571-272-4085. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sana Al-Hashemi Patent Examiner

Technology Center 2100

May 12, 2006